



Department of Defense  
**INSTRUCTION**

February 9, 1993  
NUMBER 5105.58

**AD-A272 866**



ASD(C3I)

SUBJECT: Management of Measurement and Signature Intelligence  
(MASINT)

References: (a) DoD Directive 5137.1, "Assistant Secretary of Defense for Command, Control, Communications, and Intelligence," February 12, 1992  
(b) DoD Directive 5105.21, "Defense Intelligence Agency," May 19, 1977  
(c) DoD Directive 5240.1, "DoD Intelligence Activities," April 25, 1988  
(d) Title 10, United States Code  
(e) National Security Act of 1947  
(f) Executive Order 12333, "United States Intelligence Activities," December 4, 1981

**A. PURPOSE**

This Instruction assigns responsibilities for the central management of MASINT within the Department of Defense, pursuant to references (a), (b), and (c), to ensure that U.S. Government intelligence and Defense operational, acquisition, and other needs for MASINT are met effectively and efficiently in a manner conducive to national security and consistent with the authorities and duties of the Secretary of Defense and the Director of Central Intelligence under references (d), (e), and (f).

**B. APPLICABILITY**

This Instruction applies to the Office of the Secretary of Defense, the Military Departments, the Chairman of the Joint Chiefs of Staff and the Joint Staff, the Unified and Specified Combatant Commands, the Defense Agencies, and the DoD Field Activities (hereafter referred to collectively as "the DoD Components").

**C. DEFINITION**

**MASINT.** Technically derived intelligence (excluding Signals intelligence and traditional imagery intelligence) that, when collected, processed, and analyzed, results in intelligence that locates, tracks, identifies, or describes the signatures

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(distinctive characteristics) of fixed or dynamic target sources. It includes the advanced data processing and exploitation of data from overhead and airborne imagery collection systems. MASINT data can be acquired from a variety of satellite, airborne, or shipborne platforms; remotely piloted vehicles; or from mobile or fixed ground-based collection sites. Its sensors include, but are not limited to, radar, laser, optical, infrared, acoustic, nuclear, radiation, detection, spectroradiometric, and seismic systems, as well as gas, liquid, and solid materials sampling systems.

#### D. RESPONSIBILITIES

1. The Assistant Secretary of Defense for Command, Control, Communications, and Intelligence, as the designated principal staff assistant to the Secretary and Deputy Secretary of Defense for intelligence matters under DoD Directive 5137.1 (reference (a)), shall be responsible for MASINT policy development, program oversight and evaluation, and resource management.
2. The Director, Defense Intelligence Agency, shall:
  - a. Provide central management for MASINT in accordance with DoD Directive 5105.21 (reference (b)), DoD Directive 5240.21 (reference (c)), and this Instruction.
  - b. Establish a Central MASINT Office (CMO) within the Defense Intelligence Agency (DIA), which shall be responsible for providing support to the Department of Defense, the Central Intelligence Agency (CIA), and other Federal Government Departments and Agencies on MASINT matters relating to national security. The Director, DIA, shall exercise authority, direction, and control over the CMO. The CMO shall consist of a Director, appointed by the Director, DIA, a central MASINT tasking authority, and such other subordinate organizational elements as the Director, CMO, establishes within the resources made available. The Director, CMO may also have direct access to the Director of Central Intelligence as required to fulfill Intelligence Community requirements.
  - c. Provide administrative support to the Director, CMO, including personnel, budget execution, and contracting services. The Director, CMO, may also receive administrative support, to the extent permitted by the law and approved by the Secretary of Defense and the Director of Central Intelligence, from the Central Intelligence Agency or other Departments or Agencies of the Federal Government. Resources for the CMO shall be provided through the National Foreign Intelligence Program (NFIP) and the budget aggregation known as "Tactical Intelligence and Related Activities," in accordance with applicable planning, programming, and budgeting system procedures.

d. Ensure that the Director, Central MASINT Office, shall:

(1) Organize, direct, and manage the CMO and all assigned resources.

(2) Manage the establishment of national MASINT collection requirements consistent with the guidance received from the Director of Central Intelligence under E.O. 12333 (reference (f)).

(3) Provide responsible MASINT support to the Department of Defense, the CIA, and, as appropriate, other Federal Government Departments and Agencies, including the coordination of MASINT collection tasking, collection processing, exploitation, and dissemination.

(4) Task MASINT collection elements of the Department of Defense to meet national intelligence requirements, including requirements established by the Director of Central Intelligence, in accordance with the "National Security Act of 1947" and E.O. 12333 (references (e) and (f)), except that the Director, CMO, shall advise MASINT collection elements on collection of MASINT to meet such national intelligence requirements when the collection element both (a) is assigned to, or under the operational control, of the Secretary of a Military Department or a commander of a unified or specified combatant command and (b) is not allocated by the Secretary of Defense to meet national intelligence requirements.

(5) Advise MASINT collection elements of the Department of Defense on the collection of MASINT to meet non-national intelligence requirements.

(6) Establish the architectures for MASINT tasking, collection, processing, and dissemination in the Department of Defense, in coordination with the DoD Components and consistent to the maximum practicable extent with the overall functional architectures of the Department of Defense. Also, to the extent authorized by the heads of other Departments or Agencies with MASINT tasking, collection, processing, exploitation, and dissemination functions, establish the architectures for MASINT tasking, collection, processing, exploitation, and dissemination in those other Departments and Agencies.

(7) Establish, in coordination with the Director of the Defense Information Systems Agency and the DoD Components, as appropriate, standards for MASINT systems for which the Department of Defense has responsibility and ensure compatibility and interoperability for such systems, and, to the extent authorized by the heads of the other Departments or

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Agencies with MASINT systems, establish standards and ensure compatibility and interoperability for the systems of those other Departments or Agencies.

(8) Serve as the functional manager for the MASINT programs in the NFIP consistent with applicable guidance received from the Director of Central Intelligence in accordance with the "National Security Act of 1947" and E.O. 12333 (references (e) and (f)).

(9) Serve as the functional manager, an advisor to the ASD(C3I) and the DoD Components, for the MASINT programs in the budget aggregation known as the "Tactical Intelligence and Related Activities".

(10) Evaluate the performance of MASINT components of the Department of Defense in meeting national and non-national intelligence requirements and, to the extent authorized by the heads of the other Departments or Agencies with MASINT tasking, collection, processing, exploitation, and dissemination functions, evaluate the performance of the MASINT components of those other Departments or Agencies in meeting national and non-national intelligence requirements.

(11) Develop and make recommendations on national and non-national MASINT policy, including relationships to international matters, for the approval of appropriate Federal Government officials.

(12) In coordination with the appropriate DoD Components, support and conduct research, development, test, and evaluation activities related to MASINT tasking, collection, processing, exploitation, and dissemination, consistent with applicable law and DoD Directives.

(13) Protect intelligence sources and methods from unauthorized disclosure, in accordance with guidance received from the Director of Central Intelligence under the "National Security Act of 1947" and E.O. 12333 (references (e) and (f)).

(14) In coordination with the appropriate DoD Components, establish standards for training personnel performing MASINT tasking, collection, processing, exploitation, and dissemination functions.

(15) Advise the Secretary of Defense and the Director of Central Intelligence on future needs for the MASINT systems.

(16) Coordinate the use of MASINT systems that support military forces in exercises.

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(17) Make use of established facilities and services in the Department of Defense or other governmental Agencies, to the extent permitted by law, whenever practicable, to achieve maximum efficiency and economy. Special emphasis will be made on maximizing the use of existing personnel, facilities and services of the Defense Intelligence Agency. Further, resources of the Central Intelligence Agency and other Departments or Agencies will be used to the extent authorized by the Director of Central Intelligence and the heads of other Departments and Agencies of the Federal Government.

(18) Perform such other functions related to MASINT as the Assistant Secretary of Defense for Command, Control, Communications, and Intelligence may direct.

3. The Heads of the DoD Components shall support the Director, CMO, in carrying out assigned functions by the following:

- a. Ensure compliance with national intelligence tasking issued under paragraph D.3.d above.
- b. Ensure compliance with the architectures and standards established by the Director, CMO, under paragraphs D.3.f and D.3.g above.
- c. Assist the Director, CMO, in the Director's assigned responsibility as functional manager for national and tactical MASINT programs under paragraphs D.3.h., D.3.i. and D.3.n. above.
- d. Submit MASINT collection requirements to the Director, CMO, through appropriate validation authorities.

E. EFFECTIVE DATE

This Instruction is effective immediately.



CHARLES A. HAWKINS, JR.  
Acting Assistant Secretary of Defense  
for Command, Control, Communications,  
and Intelligence